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**REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)**

In re Application of	
Pavley et al.	
Application Number	Filed
06/852,831	4/15/86
Group Art Unit	Examiner
File Information Unit	

**Assistant Commissioner for Patents  
Washington, DC 20231**

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above-identified ABANDONED application, which is: (CHECK ONE) **H 952.913**

- (A) referred to in United States Patent Number 4,952,913 column \_\_\_\_\_

(B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. \_\_\_\_\_ filed \_\_\_\_\_ on page \_\_\_\_\_ of paper number \_\_\_\_\_

(C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. \_\_\_\_\_ filed \_\_\_\_\_ or

(D) an application in which the applicant has filed an authorization to lay open the complete application to the public.

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F - 6 - 4

Unit:

# United States Patent [19]

Pauley et al.

[11] Patent Number: 4,952,913

[45] Date of Patent: Aug. 28, 1990

[54] TAC FOR USE WITH PERSONNEL MONITORING SYSTEM

[75] Inventors: James D. Pauley, Estes Park; Allen E. Ripingill, Jr., Louisville, both of Colo.

[73] Assignee: B. I. Incorporated, Boulder, Colo.

[21] Appl. No.: 446,212

[22] Filed: Dec. 4, 1989

### Related U.S. Application Data

[63] Continuation of Ser. No. 231,822, Aug. 12, 1988, Pat. No. 4,885,571, which is a continuation of Ser. No. 852,831, Apr. 15, 1986, abandoned.

[51] Int. Cl. 5 G08B 23/00; H04B 1/34

[52] U.S. Cl. 340/573; 340/314; 340/825.49; 455/100

[58] Field of Search 340/572-576, 340/514-516, 539, 825.49; 455/100

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Primary Examiner—Joseph A. Orsino

Assistant Examiner—Thomas J. Mullen, Jr.

Attorney, Agent, or Firm—Fitch, Even, Tabin & Flannery

[37]

### ABSTRACT

A tag for use with an individual monitoring system. The tag is worn by an individual being monitored, preferably on the ankle or leg where it can be concealed by the clothing of the individual. The tag is fully self contained and sealed. The circuits of the tag periodically generate an identification signal that includes an identification code. The identification signal modulates a stable RF signal that is transmitted in bursts of data words to a receiver associated with a field monitoring device (FMD) located at the monitoring location. In turn, the FMD may randomly establish communication with a central processing unit (CPU) located at a central monitoring location. Other information is included in the identification code of the tag, such as information indicating that an attempt has been made to remove the tag from the individual. The tag is held in place near the skin of its wearer by a conductive strap that wraps around the leg or other limb of the individual. Two capacitive electrodes, one of which is realized with the conductive strap, function as the plates of a capacitor, with the body flesh serving as the dielectric material therebetween. By monitoring an alternating signal coupled from one capacitive electrode to the other, a determination can be made as to whether the tag has remained near the body flesh. Further, because the strap is conductive, a signal can be passed therethrough and a determination can be made as to whether the strap has been broken.

11 Claims, 6 Drawing Sheets

